

## Carl Moyer Memorial Air Quality Standards Attainment Program

Marine Project Fact Sheet



The Bay Area Air Quality Management District (Air District) is **now accepting** applications for the Carl Moyer Memorial Air Quality Standards Attainment Program (CMP).

## **CMP Marine Project Quick-Reference Guide**

Eligible marine projects	<ul> <li>- Engine Repower: Replace an in-use engine with a new, lower emission engine</li> <li>- Remanufacture Kit: Install engine remanufacture kit that reduces the engine's emissions</li> <li>- Hybrid System: Install an EPA-verified hybrid system</li> <li>- Retrofit: Install a CARB-verified diesel emission control strategy device on a case-by-case basis</li> <li>- Vessel Replacement: Replace a vessel to a new vessel with Tier 4 or cleaner engines on a case-by-case basis</li> <li>- Ship-side Shore Power: Retrofit a marine vessel to enable shore power connection or shore-side electrification infrastructure, on a case-by-case basis.</li> <li>- Marine Vessel Exhaust Capture and Control System: Install an EPA-verified marine vessel exhaust capture and control system, on a case-by-case basis</li> <li>Note: shore power and exhaust capture projects must be able to demonstrate surplus to the implementation requirements of CARB's marine port-related regulations</li> </ul>			
Eligible marine engines and vessels requirements	<ul> <li>Propulsion or auxiliary engines must be 25 horsepower or greater &amp; diesel-fueled</li> <li>All new replacement engines must be certified to meet the EPA Tier 3 or Tier 4 marine engine emission standards or cleaner.</li> <li>New equipment must provide at least a 15% reduction in NOx (nitrogen oxides) emissions.</li> <li>Vessels are required to install and maintain functioning engine hour meters</li> <li>New equipment must be installed and operational at least three years prior to its compliance deadline.</li> <li>Non-recreational vessels including, barge, crew, supply, dredge, excursion (tour), ferries, tugboats, towboats, commercial or charter fishing, pilot, and work boats must be currently in compliance with the CHC regulation.</li> </ul>			
Attach to application	<ul> <li>Submit proof of fleet compliance, insurance, records documenting historical usage from the previous two continuous years, equipment cost estimates (quotes), and other required documentation (described on application website).</li> </ul>			
Cost- effectiveness	<ul> <li>The grant amount for each project is calculated based on a cost-effectiveness formula. All projects must meet a minimum of \$30,000 per weighted ton of NOx, ROG, and PM10 reduced to be eligible. For advanced technology that is zero-emission or alternatively meets the cleanest optional level of emissions reductions, a cost-effectiveness factor of \$100,000 per weighted ton reduced may be used.</li> </ul>			
Complete an application	Apply online at www.baaqmd.gov/moyer			

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		Baseline Technology	Replacement Technology (repower or reman kit)	Maximum Percentage (CMP)	Maximum Percentage for Community Health Protection Grant Projects	
Maximum reimbursement of eligible costs for CMP funding	Vessels subject to CHC Regulation	Tier 0 or Tier 1	Tier 3	50%	60%	
	schedules to meet Tier 2 or Tier 3 standards (e.g.,		Tier 4	85%	95%	
	barge, crew, supply, dredge, excursion,	Tier 2	Tier 3	80%	90%	
	ferry, towboat, tugboat)		Tier 4	85%	95%	
	Vessels <b>not</b> subject to CHC Regulation schedules (ex:	Tier 0, Tier 1, or Tier 2	Tier 3	80%	90%	
	fishing, pilot, workboat)		Tier 4	85%	95%	
	Installation of an EPA-verified hybrid system			85%	95%	
	Shore Power – ship side			100% of the retrofit cost and 50% of the transformer cost Case-by-Case Basis	100% of the retrofit cost and 65% of the transformer cost Case-by-Case Basis	
	Any vessel propulsion engine repowers with an off-road Tier 3 or cleaner certified engine			Case-by-case Basis	Case-by-case Basis	
	EPA-verified marine retrofit device			Case-by-case Basis	Case-by-case Basis	
	Vessel Replacement to a vessel with Tier 4 or cleaner engines			Case-by-case Basis	Case-by-case Basis	
	Purchase of an EPA verified marine vessel exhaust capture and control system			Case-by-Case Basis	Case-by-Case Basis	
Area of activity	Vessels must operate within CA Coastal Water Boundaries <u>and</u> the Air District's jurisdiction. The Air District's water boundaries range south of Bodega Bay through San Mateo County and include internal waters. For a map of CA Coastal Waters see Chapter 7, Page 5 of the CMP guidelines, at: <a href="https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm">https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm</a>					
	The following counties are part of the Air District's jurisdiction: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara and southern portions of Solano and Sonoma. CMP-funded equipment must operate within the Air District's jurisdictional					

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boundaries. Priority is given to projects that reduce emissions in the following impacted communities – AB 617 communities and communities for future AB 617 consideration.

- West Oakland
- Richmond-San Pablo
- East Oakland/ San Leandro
- Eastern San Francisco
- Pittsburg-Bay Point area
- San Jose
- Tri-Valley area
- Vallejo

More information about this funding priority is available at <a href="https://www.baaqmd.gov/AB617grants">www.baaqmd.gov/AB617grants</a>. Air District staff will determine whether applications meet Community Health Protection Grant Program and Carl Moyer Program requirements.

## Before starting your application:

- Read this Fact Sheet completely
- Understand any applicable state fleet or harbor craft regulations that may apply to your fleet. Information about the CA Air Resources Board (CARB) Commercial Harbor Craft Regulation (CHC) is available at: <a href="http://www.arb.ca.gov/ports/marinevess/harborcraft.htm">http://www.arb.ca.gov/ports/marinevess/harborcraft.htm</a>.
- Collect the information about your equipment and engines, and compile the supplemental documentation needed for your application.
- Contact your engine or equipment dealer to discuss possibilities for your equipment.
- Review <u>Chapter 7 Marine Vessels</u> of the CARB 2017 CMP Guidelines at: <a href="https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm">https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm</a>
- Contact Yu Zhang Liu at (415) 749-8430 or <a href="mailto:yliu@baaqmd.gov">yliu@baaqmd.gov</a> with any questions.

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**CARB Commercial Harbor Craft Regulation Information**Webpage: <a href="http://www.arb.ca.gov/ports/marinevess/harborcraft.htm">http://www.arb.ca.gov/ports/marinevess/harborcraft.htm</a>

CARB Commercial Harbor Craft Regulation							
Contact for Harbor Craft Regulation Questions	Zhenlei Wang – Phone: (916) 322-1049 / E-mail: <a href="mailto:zwang@arb.ca.gov">zwang@arb.ca.gov</a> Website: <a href="mailto:http://www.arb.ca.gov/ports/marinevess/harborcraft.htm">http://www.arb.ca.gov/ports/marinevess/harborcraft.htm</a>						
Regulation compliance schedule for	Compliance Dates for Engines on Ferries, Excursion Vessels, Tugboats, Towboats and Push Boats located outside the South Coast AQMD and Engines on Crew and Supply Vessels Statewide						
engine replacement	Engine Model Year	Total Annual Hours of Operation	Compliance Date				
Must meet EPA Tier 2 or Tier 3	2003 or older	≥ 300	Must currently meet Tier 2 emission standards or cleaner				
emission	2004	≥ 300	12/31/2019				
standards or	2005	≥ 300	12/31/2020				
cleanest available	2006	≥ 300	12/31/2021				
	2007	≥ 300	12/31/2022				
Regulation compliance schedule for	Compliance Dates for pre-Tier 1 and Tier 1 Engines on Dredge and Barge Vessels Statewide						
engine	<b>Engine Model Year</b>	Total Annual	Compliance Date				
replacement		<b>Hours of Operation</b>					
Must meet EPA	2002 or older	>80	Must currently meet Tier 2 emission standards or cleaner				
Tier 2 or Tier 3	2003	>80	12/31/2019				
emission	2004	>80	12/31/2020				
standards—	2005	>80	12/31/2021				
cleanest available	2006	>80	12/31/2022				

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